

DESCRIPTION OF NEW SPECIES OF LAND AND MARINE SHELLS
FROM THE MONTEBELLO ISLANDS, WESTERN AUSTRALIA.

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Read 12th December, 1913.

THROUGH the kindness of Mr. T. H. Haynes the author has been able to obtain a certain amount of material from the Montebello Islands, and though the greater part consists of well-known Indian Ocean forms, a few appear to have hitherto escaped description, and are in all probability peculiar to the West Australian region, if not actually to the Montebello Islands themselves. Of these species the author ventures to give the following diagnoses.

RHAGADA MONTEBELLOENSIS, n.sp.

Shell perforate, globose; whorls $4\frac{1}{2}$, marked with rather coarse growth-lines, the last whorl somewhat rapidly descending; suture almost incised; umbilicus narrow, deep, partly concealed by the reflexed columella-margin; columella-margin excavated above,



descending in an oblique curve; labrum slightly thickened, narrowly reflexed, the margins joined by a very thin callus; aperture broadly ovate. Alt. 13, diam. maj. 16, min. 13 mm. Aperture: alt. 9, diam. 8 mm.

Hab.—Montebello Islands, Western Australia.

RHAGADA PLICATA, n.sp.

Shell globular, scarcely perforate, solid, whitish; whorls $4\frac{1}{2}$, the earlier almost smooth, the later sculptured above with fine, closely



set, oblique and slightly arcuate, transverse costulae, painted with a light-brownish supersutural band, which appears as a peripheral

band on the last whorl; base of shell convex, sculptured with fine lines of growth only, and painted with several lightish-brown, very thin, revolving bands; suture impressed, somewhat crenulated; umbilicus reduced to a hardly perceptible chink; columella-margin excavated, much thickened in the umbilical region; labrum thickened, white, slightly expanded, the margins joined by a coarse callus; aperture obliquely, broadly lunate. Alt. 7·5, diam. maj. 10·25 mm. Aperture: alt. 4, diam. 4·5 mm.

Hab.—Montebello Islands, Western Australia.

NATICA REN, n.sp.

Shell ovate, imperforate, solid, whitish; whorls $4\frac{1}{2}$, the earlier whorls sculptured with fine, arcuate wrinkles, the last two whorls bearing this sculpture above only, being smooth below, a faint brownish band appearing on that portion of the shell where are situated the wrinkles; suture lightly impressed; columella-callus gibbous above, white, polished, very heavy, bulging outwards both above and below, and extending over the umbilical region; labrum



aperte; aperture elongately ovate; interior of shell tinged with pale reddish-brown, especially above; operculum having 3 whorls, the inner side slightly convex, white, covered with a thin, pale-yellowish periostracum, the outer side, white polished, bearing posteriorly a reniform rich brown raised blotch. Alt. 22, diam. maj. 21, min. 13 mm. Aperture: alt. 14, diam. 7 mm.

Hab.—Montebello Islands, Western Australia.

PHASIANELLA MONTEBELLOENSIS, n.sp.

Shell turbinately fusiform, polished, flesh-coloured, painted with somewhat distant, narrow, interrupted, spiral bands of livid purple,



between which occur narrow, spiral bands of deep scarlet, regularly punctated with cream-coloured spots, and transversely painted with

broad, irregular, livid, purplish bands; whorls 7, convex, the last slightly descending in front, minutely sculptured with very fine, closely set spiral striæ, and marked with fine lines of growth; suture impressed, rather darkly tessellated and margined below; columella-margin white, arched; labrum simple, acute; aperture roundly ovate; interior of shell flesh-coloured. Alt. 20·5, diam. maj. 11·5, min. 9 mm. Aperture: alt. 8·5, diam. 5·5 mm.

Hab.—Montebello Islands, Western Australia.

TURBO FOLIACEUS, SCABROSUS, n.subsp.

Shell differing from typical *T. foliaceus*, Phil.,¹ in its much more coarsely scabrous sculpture, which gives to the spiral liræ the appearance of being ornamented with broad hollow spines.

Hab.—Montebello Islands, Western Australia.

TURBO FOLIACEUS, HAYNESI, n.subsp.

Shell imperforate, turbinate, moderately solid, tessellated with yellowish-pink, alternating with broad flame-markings of dark-green shading to olive; whorls $5\frac{1}{2}$, sculptured with two coarse tubercular carinæ, and several finer tubercular, spiral liræ, the interstices marked with fine spiral striæ, on the last whorl the tubercular carinæ increase to four, and the spiral liræ increase also in number; base of shell convex, sculptured with six revolving, tubercular riblets, and a number of fine striæ; suture narrowly and deeply channelled;



columella-margin descending in a curve, the inner margin iridescent, the outer margin covered with a thick white callus which is diffused above; labrum acute; aperture roundly ovate; operculum multispiral with sub-central nucleus, whorls $4\frac{1}{2}$, the inner side slightly convex, covered with a very thin, deciduous, light-brownish periostracum, marked with arcuate lines of growth, the outer margin of the earlier whorls flatly ridged, three such ridges appearing on the last whorl, the outer side white, much thickened, and almost smooth above,

¹ Conch. Cab., 2nd ed., p. 41, pl. xi, figs. 2, 3.

granular below, and bearing a single, coarse, almost central, spiral rib on the last whorl. Alt. 35.75, diam. maj. 31 mm. Aperture: alt. 15, diam. 16 mm.

Hab.—Montebello Islands, Western Australia.

TURBO FOLIACEUS, TURRIFORMIS, n. subsp.

Shell perforate, turritiform, somewhat solid, whitish, painted with broad transverse, olive-green and black bands; whorls $5\frac{1}{2}$, very convex, sculptured with spiral liræ and riblets, between which occur very fine granular spiral striæ crossed by fine, closely set, transverse lines, giving to the shell a finely scabrous appearance; suture impressed above, narrowly channelled below; umbilicus narrow, deep; columella-margin somewhat arched, white, extending into a narrow, heavy callus, which joins the upper margin of the labrum, and causes



the peristome to be nearly continuous; peristome acute; aperture sub-circular; interior of shell iridescent; operculum multispiral with nearly central nucleus; whorls 6, the inner side slightly concave, covered with a coarse, scaly, brown, horny periostracum, the outer side sparsely pustulate centrally, the pustules becoming much finer and more numerous towards the outer margin, centrally and posteriorly white, anteriorly dark-green except for a narrow, pale band round the outer margin. Alt. 33, diam. maj. 26 mm. Aperture: alt. 15, diam. 15 mm.

Hab.—Montebello Islands, Western Australia.

TROCHUS MONTEBELLOENSIS, n. sp.

Shell large, conic, ponderous, pale flesh-coloured, broadly, transversely streaked, blotched and banded with pink and purple; remaining whorls 6, the last slightly shouldered below, and bluntly angled at the periphery, sculptured with coarse, irregular, spiral, beaded liræ and very oblique, transverse striæ, the upper whorls coarsely coronated immediately above the suture; suture weakly impressed; base of shell greyish brown, maculated with pale flesh-colour, sculptured with very fine radiate striæ crossed by thirteen moderately coarse, revolving, finely beaded liræ which extend into

the interior of the shell, a narrow band of scarlet and chestnut running round the umbilical region; umbilical area pearly, sunk into a deep and narrow depression, a very thin polished callus extending from it to the upper margin of the labrum; columella-margin nacreous, twisted into a coarse fold above, descending in a very

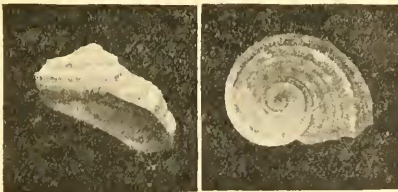


oblique curve and terminating below in a blunt, nodulous protuberance; labrum acute, receding posteriorly, obliquely extended anteriorly; aperture subrhomboidal; interior of shell nacreous, pale bluish white, slightly iridescent. Alt. 56.5, diam. maj. 49, min. 45 mm. Aperture: alt. 27, diam. 20 mm.

Hab.—Montebello Islands, Western Australia.

STOMATIA SCULPTURATA, n.sp.

Shell roundly anuriform, narrowly perforate, rather thin, flesh-coloured, painted with pale cinereous brown, broad, transverse flame-markings, and tessellated below with the same colour; whorls $3\frac{1}{4}$,



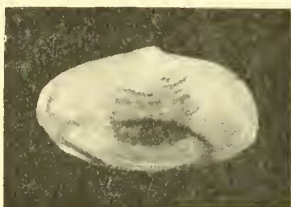
bearing a single tuberculous revolving earina and one coarse, peripheral, nearly smooth carina and a number of fine, almost smooth, spiral liræ, between all of which occur somewhat distant, spiral striæ and coarse, transverse lines of growth which develop into wrinkles

on the latter half of the last whorl; suture impressed; umbilicus reduced to a mere chink; columella-margin curved; labrum acute and coarsely serrated by the terminations of the revolving carinæ and liræ; aperture broadly ovate; interior of shell highly iridescent, showing the inverse sculpture. Alt. 14·5, diam. maj. 20 mm.

Hab.—Montebello Islands, Western Australia.

PSAMMOBIA ECOLORATA, n.sp.

Shell elongately ovate, thin, small, white, marked with concentric growth-lines and sculptured posteriorly with fine, scarcely noticeable, transverse, radiate striæ; umbones small; dorsal margin anteriorly sloping, posteriorly nearly straight; ventral margin scarcely rounded;



anterior side bluntly acuminate; posterior side angled above, obtusely rounded below; pallial impression broad, elongate, extending more than two-thirds of the total breadth of the shell; interior of shell white. Long. 10, lat. 17·5 mm.

Hab.—Montebello Islands, Western Australia.

SOLENOTELLINA HAYNESI, n.sp.

Shell elongately ovate, almost smooth, polished, livid purple, whitish in the sub-umbonal region, painted posteriorly with two pale, radiate bands, irregularly marked with lines of growth, and here and there showing closely set, transverse, wrinkled striæ; umbones small, not prominent, stained with dark purple, the stains spreading on either side; dorsal margin arched; ventral margin



scarcely rounded; anterior side somewhat acutely rounded; posterior side rounded above, then angled, and sloping below; pallial impression broadly elongate, marked with almost horizontal, scratch-like striæ; interior of shell minutely granulate, livid purple. Long. 14·25, lat. 26·5 mm.

Hab.—Montebello Islands, Western Australia.